MMM MMM MMM	MMM MMM MMM		AAAA	AAAA AAAA AAAA	AAA	AAAAA AAAAA AAAAA	2222222222	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMMMM		TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	CCC	PPP	PPP
MMM	MMM MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	PPP
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPPPPPPPPP	
MMM	MMM	TTT	AAAAAA	AAAAAAA		AAAAAAAA	ČČČ	PPP	
MMM	MMM	TTT	AAAAAA	AAAAAAA		AAAAAAAA	ČČČ	PPP	
MMM	MMM	TTT		AAAAAAA		AAAAAAAA	ččč	PPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMM	MMM	TTT	AAA	AAA	AAA	AAA	ČČČ	PPP	
MMP	MMM	TTT	AAA	AAA	AAA	AAA	ččč	PPP	
MMM	MMM	TIT	AAA	AAA	AAA	AAA	CCCCCCCCCC	PPP	
MMM	MMM	ŤŤŤ	AAA	AAA	AAA	AAA	2222222222	PPP	
MMM	MMM	ttt	AAA	AAA	AAA	AAA	2222222222	PPP	

RE

RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR		\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
	\$			

RE

VAX-11 Bliss-32 V4.0-742 EMTAACP.SRCJREWSPC.832;1

MODULE REWSPC (LANGUAGE (BLISS32) , IDENT = 'V04-000'

BEGIN

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FACILITY: MTAACP

ABSTRACT:

This module rewinds a file and spaces within a file

ENVIRONMENT:

STARLET operating system, including privileged system services and internal exec routines.

AUTHOR: D. H. GILLESPIE, CREATION DATE: 6-AUG-1977

MODIFIED BY:

ROW0258

The Paul Painter Memorial Enhancement
Named for one of the unfortunate customers who suffered much to determine the great UCB\$L_MT_RECORD secret while trying to create a user-written magtape driver, this change eliminates use of the device dependent field, UCB\$L_MT_RECORD in favor of the device independent field, UCB\$L_RECORD. V03-003 ROW0258

REV

VAX-11 Bliss-32 V4.0-742 EMTAACP.SRCJREWSPC.B32;1

Page

```
FUNCTIONAL DESCRIPTION:

This routine rewinds to the beginning of the current file. if the beginning is on another volume, that volume is mounted and positioned to the beginning of the files data area. Once at the beginning the access to the file is reset to the original requested access.
CALLING SEQUENCE: REWIND_FILE()
               INPUT PARAMETERS:
                        none
                IMPLICIT INPUTS:
                        CURRENT_WCB - address of current volume control block CURRENT_WCB - address of current window control block
               OUTPUT PARAMETERS:
                        none
               IMPLICIT OUTPUTS:
                        none
               ROUTINE VALUE:
                        none
               SIDE EFFECTS:
                        file positioned to beginning
                        original access restore
               USER ERRORS:
                        SS$_FILNOTACC - file not accessed
                  BEGIN
                  EXTERNAL REGISTER
                        COMMON_REG;
                  LOCAL FID.
                                                                                        file identification file section sequence number
                        SEQ.
                                                                                         tape marks
                        VOL:
                                                                                      ! relative volume number
                  if file is not accessed give error
                  IF .CURRENT_WCB EQL 0
                        ERR_EXIT(SS$_FILNOTACC);
                  ! if writing, then close out file
```

```
REWSPC
V04-000
                                                                                                           VAX-11 Bliss-32 V4.0-742
[MTAACP.SRCJREWSPC.B32:1
   IF NOT . CURRENT_WCB[WCB$V_READ]
                                       CLOSE_FILE();
                                  ! calculate which relative volume the beginning is on
                                  SEQ = .CURRENT_VCB[VCB$W_CUR_SEQ];
                                                                                        ! file section number
                                  IF .SEQ EQL 1
THEN
                                       BEGIN
                                                                              ! currently in first file section
                                       IF .CURRENT_VCB[VCB$V_LOGICEOVS]
                                       THEN
                                            SPACE_TM(-4)
                                                                                        ! write case
                                       ELSE
                                            BEGIN
                                                                                        ! read case
                                            ! number of tape marks into current file section
                                            TM = .CURRENT_VCB[VCB$B_TM];
                                            IF .TM EQL O AND .HDR1[HD1$L_HD1LID] NEQ 'HDR1'
                                            THEN
                                                TM = 3:
                                            IF .TM GEQ 1
                                                  backspace to tape mark preceding start of data
                                                SPACE_TM(-.TM);
                                            END;
                                       SPACE_TM(1);
HDR1[HD1$L_HD1LID] = 'HDR1';
                                                                                        ! pass over TM
                                       IF HDR2[HD2$L_HD2LID] NEQ O
                                            HDR2[HD2$L_HD2LID] = 'HDR2';
                                       END
                                  ELSE
                                       BEGIN
                                       ! current file number and section
                                      FID = .CURRENT_VCB[VCB$L_CUR_FID];

FID<16, 16> = T;

VOL = .CURRENT_VCB[VCB$B_CUR_RVN];

VOL = .VOL - .SEQ + 1;

POSITION_BY_FID(.FID, .VOL);
                                                                                          want section one current volume
                                                                                          calculate volume wanted
                                                                                          position to file section
                                       IF .CURRENT_VCB[VCB$B_TM] EQL 0
```

REW VO4

REWSPC V04-000								1	C 8 6-Sep- 4-Sep-	1984 02:31	:54 VAX-11 Bliss-32 V4.0-742 :49 [MTAACP.SRC]REWSPC.B32;1	Page 5
217 218 219 220 221 222	0599 0600 0601 0602 0603 0604 0605	3332221	THEN SP END; KERNEL_CAL END;		TM(1);	(88)					al access to the file	
										.TITLE	REWSPC \V04-000\	
										.EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN	CLOSE_FILE, FORMAT_FID GTNEXT_VOL_READ MOUNT_VOL, POSITION_BY_FID READ_BLOCK, RESTORE_ACTESS SPACE, SPACE_TM SYS\$QIOW, CURRENT_UCB CURRENT_WCB, HDR1 HDR2, LOCAL_FIB IO_CHANNEL, IO_STATUS USER_STATUS, SYS\$CMKRNL	
										.PSECT	\$CODE\$,NOWRT,2	
				53 50 03	0000G 0000G 0000G 0000G	CF	40C 9E 05 12 BF 08 30	00002		.ENTRY MOVAB TSTL BNEQ CHMU MOVL BLBS BSBW	REWIND_FILE, Save R2,R3,R10 SPACE_TM, R3 CURRENT_WCB 1\$ #172 CURRENT_WCB, R0 11(R0), 2\$ CLOSE_FILE	0485 0537 0539 0546
		05	0B	52 01 AB 7E	26	AB 52 46 01	3C D1 12 E1	0001D 00021 00024 00026	2\$:	MOVZWL CMPL BNEQ BBC MNEGL	CLOSE_FILE 38(CURRENT_VCB), SEQ SEQ, #1 7\$ #1, 11(CURRENT_VCB), 3\$ #4, -(SP)	0550 0552 0556 0558
			31524448	50 8F	2E 0000G	1B AB OE DF	11 9A 12 D1	0002E 00030 00034 00036	3\$:	CHMU MOVL BLBS BSBW MOVZWL CMPL BNEQ BBC MNEGL BRB MOVZBL BNEQ CMPL BEQL	46(CURRENT_VCB), TM 4\$ aHDR1, #827475016	0564 0566
				50		DF 03 03 50 650 01	D0 D5 15	00041 00044 00046	48:	BRB MOVZBL BNEQ CMPL BEQL MOVL TSTL BLEQ MNEGL CALLS PUSHL CALLS MOVL BEQL MOVL BRB MOVL BRB MOVL BRB	4\$ #3, TM TM 6\$	0568 0570
				7E 63		01	FB DD FB DO 13 DO 11	00048 0004E 00050	5\$: 6\$:	CALLS PUSHL CALLS	TM, -(SP) #1, SPACE_TM #1 #1, SPACE_TM	0575
			0000G		31524448 0000G 32524448	8F CF 31 8F	DO 13	00053 00050 00061 00063		MOVL BEQL MOVI	#1, SPACE TM #827475016, aHDR1 HDR2, RO 8\$ #844252232, (RO)	0580 0582 0584
	51	10		51 10	24	8F 28 AB 01	11 00 F0	0006A 0006C 00070	7\$:	BRB MOVL INSV	8\$ 36(CURRENT VCB), FID #1, #16, #T6, FID	0584 0552 0592 0593

REW VO4

REWSPC V04-000				D 8 16-Sep-1984 02:31:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:49 [MTAACP.SRCJREWSPC.B32;1	Page 6
	52	50 50 50	2F 01	AB 9A 00075 MOVZBL 47(CURRENT_VCB), VOL 52 C3 00079 SUBL3 SEQ, VOL, R2 A2 9E 0007D MOVAB 1(R2), VOL 50 DD 00081 PUSHL VOL	: 0594 : 0595 : 0596
	0000G	CF	2E	51 DD 00083 PUSHL FID 02 FB 00085 CALLS #2, POSITION_BY_FID AB 95 0008A TSTB 46(CURRENT_VCB)	0598
		63		01 FB 00091 CALLS #1. SPACE TM	0600
	00000000G	9F	0000G	7E D4 00094 8\$: CLRL -(SP) 5E DD 00096 PUSHL SP CF 9F 00098 PUSHAB RESTORE ACCESS 03 FB 0009C CALLS #3, @#STS\$CMKRNL 04 000A3 RET	0605

; Routine Size: 164 bytes, Routine Base: \$CODE\$ + 0000

; 224 0606 1

......

```
REWSPC
V04-000
                                                                              16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                           VAX-11 Bliss-32 V4.0-742
EMTAACP.SRCJREWSPC.B32:1
                                                                                                                                                      Page
                   0607
0608
0609
0611
0613
0615
0616
0617
0616
0623
0623
0623
0623
0623
                             ROUTINE SETUP_END (TM) : COMMON_CALL NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                       Setup at end of file
                               CALLING SEQUENCE:
                                      SETUP_END (ARG1)
                               INPUT PARAMETERS:
                                       ARG1 - number of tape marks to be spaced and direction
                               IMPLICIT INPUTS:
                                      CURRENT_UCB - address of current unit control block HDR1 - address of 'HDR1' and 'EOF1' label
                               OUTPUT PARAMETERS:
                                      none
                               IMPLICIT OUTPUTS:
                                      CURRENT_VCB[VCB$L_ST_RECORD]
                               ROUTINE VALUE:
                   none
                               SIDE EFFECTS:
                                      none
                                  BEGIN
                                  EXTERNAL REGISTER
                                      COMMON_REG;
                                  EXTERNAL ROUTINE
                                      LIB$CVT_DTB
                                                          : ADDRESSING_MODE (ABSOLUTE);
                                  LOCAL
                                      BLOCK:
                                  SPACE_TM(.TM);
                                                          ! space to end of file, right before end date TM
                                  ! setup as if trailers had not been read
                                  HDR1[HD1$L_HD1LID] = 'HDR1';
                                  IF HDR2[HD2$L_HD2LID] NEQ 0
                                      HDR2[HD2$L_HD2LID] = 'HDR2';
                                  IF NOT LIBSCVT_DTB(E01$S_BLOCKCNT, HDR1[E01$T_BLOCKCNT], BLOCK)
                   0661
0662
0663
                                      ERR_EXIT(SS$_BLOCKCNTERR);
                                  BLOCK = .CURRENT_UCB[UCB$L_RECORD] - .BLOCK;
```

**F

(3)

REWSPC V04-000			F 8 16-Sep-1984 02:31:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:49 [MTAACP.SRC]REWSPC.B32;1	Page 8 (3)
; 283 ; 284	0664 2 0665 1	KERNEL_CALL (UPD_ST_RECO	RD, .BLOCK);	
			.EXTRN LIB\$CVT_DTB	
			0000 00000 SETUP_END:	. 0607
		5E 0000G CF 0000G DF 31524448 50 0000G 60 32524448	07 13 0001B BEQL 1\$ 8F DO 0001D MOVL #844252232, (RO) 5E DD 00024 1\$: PUSHL SP	0607 0649 0653 0655 0657
	7	00000000G 9F	36 C1 00026 ADDL3 #54, HDR1, -(SP) 06 DD 0002C PUSHL #6 03 FB 0002E CALLS #3, a#LIB\$CVT_DTB 50 E8 00035 BLBS R0, 2\$ 8F BF 00038 CHMU #2368 CF DO 0003C 2\$: MOVL CURRENT_UCB, R0	
	6	E 00B0 C0 0000G	50 E8 00035 BLBS R0, 2\$ 8F BF 00038 CHMU #2368 CF D0 0003C 2\$: MOVL CURRENT_UCB, R0 6E C3 00041 SUBL3 BLOCK, T76(R0), BLOCK 6E DD 00047 PUSHL BLOCK 01 DD 00049 PUSHL #1	: 0661 : 0663 : 0664
		00000000 9F 0000V	01 DD 00049 PUSHL #1 5E DD 0004B PUSHL SP CF 9F 0004D PUSHAB UPD_ST_RECORD 04 FB 00051 CALLS #4, @#SYS\$CMKRNL 04 00058 RET	0665
; Routine Siz	e: 89 bytes,	Routine Base: \$CODE\$	+ 00A4	

```
REWSPC
V04-000
                                                                                                    16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                                                         VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.832;1
                                     ROUTINE UPD_ST_RECORD (BLOCK) : COMMON_CALL NOVALUE =
                        06667
06667
06667
06677
06677
06677
06677
06677
06677
06687
06687
06687
06687
06697
06697
06697
06697
06697
06697
    FUNCTIONAL DESCRIPTION:
                                                  This routine updates the start record count in the volume control block and sets the TM count to 1 because now positioned before end data TM
                                        CALLING SEQUENCE:

UPD_ST_RECORD(ARG1)

called in kernel mode
                                        INPUT PARAMETERS:
                                                  ARG1 - new value of start record count
                                        IMPLICIT INPUTS: CURRENT_VCB
                                        OUTPUT PARAMETERS:
                                                 none
                                        IMPLICIT OUTPUTS:
                                                 CURRENT_VCB[VCB$L_ST_RECORD] = BLOCK
                                        ROUTINE VALUE:
                                                 none
                                        SIDE EFFECTS:
                                                 none
                                           BEGIN
                                           EXTERNAL REGISTER
                                                 COMMON_REG;
                                           CURRENT_VCB[VCB$B_TM] = 1;
CURRENT_VCB[VCB$L_ST_RECORD] = .BLOCK;
                                           END:
                                                                                     0000 00000 UPD_ST_RECORD:
                                                                                                                               Save nothing
#1, 46(CURRENT_VCB)
BLOCK, 48(CURRENT_VCB)
                                                                                                                   . WORD
                                                                                            00002
00006
0000B
                                                                                        90
00
04
                                                                                                                   MOVB
                                                                                  AC
                                                                                                                   MOVL
                                                                                                                   RET
; Routine Size: 12 bytes,
                                              Routine Base: $CODE$ + OOFD
: 326
                        0706 1
```

RWY

RW

RW VO

```
REWSPC
V04-000
                                                                                                          VAX-11 Bliss-32 V4.0-742
[MTAACP.SRC]REWSPC.B32;1
                                                ERR_EXIT(SS$_TAPEPOSLOST);
   IF .HDR1[HD1$L_HD1LID] EQL 'EOF1'
                                                BEGIN
SETUP_END(-1);
KERNEC_CALL(RESTORE_ACCESS);
ERR_EXIT(SS$_ENDOFFILE);
END;
                                           IF .HDR1[HD1$L_HD1LID] NEQ 'EOV1' THEN
                                                ERR_EXIT(SS$_TAPEPOSLOST);
                                           GTNEXT_VOL_READ();
                                                                             ! get next volume in volume set
                                           IF .CURRENT_VCB[VCB$B_TM] EQL 0
                                           THEN
                                                SPACE_TM(1);
                                           END:
                                      END
                                                                                       ! end of forward space loop
                                 ELSE
                                      BEGIN
                                                                                       ! begin of backspace
                                       IF .BLOCKS NEQ 0
                                      THEN
                                           BLOCKS = -(.BLOCKS);
                                       IF .BLOCKS<15, 17> NEQ 0
                                      THEN
                                           ERR_EXIT(SS$_BADPARAM);
                                        position to data if not there
                                      IF NOT .CURRENT_WCB[WCB$V_READ]
                                      THEN
                                           CLOSE_FILE();
                                       IF .CURRENT_VCB[VCB$V_LOGICEOVS]
                                      THEN
                                           SETUP_END(-3)
                                      ELSE
                                           BEGIN
TM = .CURRENT_VCB[VCB$B_TM];
                                                                                       ! read case
                                           IF .TM EQL O AND .HDR1[HD1$L_HD1LID] EQL 'HDR1'
                                           THEN
                                               BEGIN
SPACE TM(1);
KERNET CALL (RESTORE ACCESS);
ERR_EXIT(SS$_BEGOFFILE);
                                                END:
                                           IF .TM EQL 0
```

RW\

: F

RW\

```
REWSPC
V04-000
                                                                                                                   16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                                                                              VAX-11 Bliss-32 V4.0-742 [MTAACP.SRC]REWSPC.B32;1
                                                                                                                                                                                                                              Page
                                                                        SPACE_TM(-3);
SPACE_TM(1);
SETUP_AT_END();
KERNEC_CALL(FORMAT_FID, CURRENT_VCB[VCB$L_CUR_FID]);
                            0935
0935
0937
09339
0944
09445
09450
0955
0955
0955
0955
     557890
55566123
556678
55667
55777
5777
5777
5777
                                       66666566666655
                                                                ELSE
                                                                      BEGIN

FID<16, 16> = .SEQ - 1;

POSITION_BY_FID(.FID, .VOL);

TM = 2 - .CURRENT_VCB[VCB$B_TM];

SPACE_TM(.TM);

SETUP_AT_END();

FND:
                                                                END;
END;
                                                                                                                  ! end of while loop
                                                         END:
                                                                                                                   ! end of forward and backward space
                                                  USER_STATUS<16, 16> = .USER_STATUS<16, 16> + .IO_STATUS<16, 16>;
                                                  KERNEL_CALL (RESTORE_ACCESS);
                                                                                                                                                  SPACE_IN_FILE, Save R2,R3,R4,R5,R6,R7,R8,-
R9,R10
RESTORE_ACCESS, R10
HDR1, R9
IO_STATUS, R8
SPACE_TM, R7
a#SYS$CMKRNL, R6
                                                                                                   07FC 00000
                                                                                                                                     .ENTRY
                                                                                                                                                                                                                                     0707
                                                                          0000G
0000G
0000G
0000G
                                                                      59
59
57
56
56
                                                                                                           00002
                                                                                                      9E
9E
9E
9E
9E
25
12
                                                                                                                                     MOVAB
                                                                                               CF
CF
CF
OF
O4
                                                                                                                                     MOVAB
                                                                                                           0000C
                                                                                                                                    MOVAB
                                                                                                          00011
00016
0001D
00020
00024
00026
0002A 1$:
                                                                                                                                     MOVAB
                                                                                                                                     MOVAB
                                                                                                                                     SUBL2
                                                                                                                                                   #4. SP
                                                                                  0000G
                                                                                                                                    TSTL
                                                                                                                                                                                                                                     0758
                                                                                                                                                   CURRENT_WCB
                                                                                                                                    BNEQ
                                                                                  0000G
                                                                                                                                                   #172
                                                                                                                                                                                                                                     0760
0762
0764
                                                                                                                                     CHMU
                                                                                                      BF DO 14 31 85 13
                                                                                                                                                  LOCAL FIB+24, BLOCKS
BLOCKS, RO
25
                                                                     6E
                                                                                                                                     MOVL
                                                                                                                                    MOVL
                                                                                                           00032
                                                                                                                                    BGTR
                                                                                                                                                   15$
                                                                                           00BF
                                                                                                                                    BRW
                                                                                                                                                  BLOCKS+2
                                                                                                           00037 28:
                                                                                                                                    TSTW
                                                                                                                                                                                                                                     0768
                                                                                                                                    BEQL
                                                                                                           0003C
                                                                                                                                                   #20
                                                                                                      BF
DO
E8
BF
95
12
                                                                                                                                                                                                                                     0770
0775
                                                                                                           0003E 3$:
00043
00047
                                                                      50
02
                                                                                  90000
80
                                                                                                                                                   CURRENT_WCB, RO
                                                                                                                                    MOVL
                                                                                                                                    BLBS
                                                                                                                                                   #20
46(CURRENT_VCB)
5$
                                                                                                                                                                                                                                     0777
0782
                                                                                               AB
                                                                                                           00049 48:
                                                                                      2E
                                                                                                                                    TSTB
                                                                                                                                    BNEQ
                                                                                                           0004C
                                                                                               B9
05
01
01
                                                                                                           0004E
00056
                                                  31524448
                                                                      8F
                                                                                      00
                                                                                                     D1
12
                                                                                                                                                                                                                                     0784
                                                                                                                                                   aHDR1, #827475016
                                                                                                                                    BNEQ
                                                                                                                                    PUSHL
CALLS
CMPB
                                                                                                           00058
                                                                                                                                                                                                                                     0786
                                                                                                      DD
                                                                                                      FB
91
13
                                                                                                                                                  #1, SPACE TM
46(CURRENT_VCB), #1
                                                                                                            0005A
                                                                      67
01
                                                                                               AB
1D
AB
                                                                                                            0005D 5$:
                                                                                      2E
                                                                                                                                                                                                                                     0788
                                                                                                                                    BEQL
                                                                      02
                                                                                      2E
                                                                                                           00063
                                                                                                                                                   46(CURRENT_VCB), #2
                                                                                                                                                                                                                                     0792
```

RWY

RW

			16-Sep-1984 02:31:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:49 [MTAACP.SRC]REWSPC.B32;1	Page 16 (5)
		67	01 FB 0012D CALLS #1, SPACE_TM 7E D4 00130 CLRL -(SP)	;
		66 4400	8F BB 00132 PUSHR # M <r10, sp=""> 03 FB 00136 CALLS #3, SYS\$CMKRNL</r10,>	: 0873
		0938	7E D4 00130	0874
		52	03 12 0013F BNEQ 21\$ 03 D0 00141 MOVL #3, TM 52 D1 00144 21\$: CMPL TM, #2	:
		52 02	03 D0 00141 MOVL #3, TM 52 D1 00144 21\$: CMPL TM, #2 0B 19 00147 BLSS 23\$ A2 9F 00149 PUSHAB -1(TM)	0879 0881
		6E FF	0B 19 00147 BLSS 23\$ A2 9F 00149 PUSHAB -1(TM) 6E CE 0014C MNEGL (SP), (SP) 01 FB 0014F 22\$: CALLS #1, SETUP_END	0883
	FE47	6E CF 7E	01 FB 0014F 22\$: CALLS #1, SETUP_END 6E CE 00154 23\$: MNEGL BLOCKS, -(SP)	0896
	0000G	CF 03	6E CE 0014C MNEGL (SP), (SP) 01 FB 0014F 22\$: CALLS #1, SETUP_END 6E CE 00154 23\$: MNEGL BLOCKS, -(SP) 01 FB 00157 CALLS #1, SPACE 50 E9 0015C BLBC R0, 24\$ 0089 31 0015F BRW 28\$	
		50 0000G	CF 3C 00162 24\$: MOVZWL USER_STATUS+2, RO	0900
0000G	CF	50	A8 3C 00167 MOVZWL IO_STATUS+2, R1 51 CO 0016B ADDL2 R1, R0 01 A3 0016E SUBW3 #1, R0, USER_STATUS+2	
***************************************	50	50 02	CF 3C 00162 24\$: MOVZWL USER_STATUS+2, RO A8 3C 00167 MOVZWL IO_STATUS+2, R1 51 CO 0016B ADDL2 R1, RO 01 A3 0016E SUBW3 #1, RO, USER_STATUS+2 A8 3C 00174 MOVZWL IO_STATUS+2, RO 50 C3 00178 SUBL3 RO, BLOCKS, RO A0 9E 0017C MOVAB 1(RO), BLOCKS	0904
		50 0000G 51 02 50 50 50 02 6E 01 55 24 54 26	51 CO 0016B ADDL2 R1, R0 01 A3 0016E SUBW3 #1, R0, USER_STATUS+2 A8 3C 00174 MOVZWL IO_STATUS+2, R0 50 C3 00178 SUBL3 R0, BLOCKS, R0 A0 9E 0017C MOVAB 1(R0), BLOCKS AB D0 00180 MOVL 36(CURRENT_VCB), FID AB 3C 00184 MOVZWL 38(CURRENT_VCB), SEQ 56 D1 00188 CMPL SEQ #1	0905
		54 26 01	24 DI ODIOO CHIE DEW, WI	: 0906 : 0908
		47	12 12 0018B BNEQ 25\$ 01 DD 0018D PUSHL #1	: 0915
		4400	01 FB 0018F CALLS #1, SPACE_TM 7E D4 00192 CLRL -(SP) 8F BB 00194 PUSHR #^M <r10,sp></r10,sp>	0916
		66	7E D4 00192 CLRL -(SP) 8F BB 00194 PUSHR #^M <r10,sp> 03 FB 00198 CALLS #3, SYS\$CMKRNL 8F BF 0019B CHMU #2360 AB 9A 0019F 25\$: MOYZBL 47(CURRENT_VCB), VOL</r10,sp>	0917
		53 0938 2F	AB 9A 0019F 25\$: MOVZBL 47(CURRENT_VCB), VOL 02 DD 001A3 PUSHL #2	0917 0922 0923
	0000G	CF	02 DD 001A3 PUSHL #2 73 9F 001A5 PUSHAB -(VOL) 02 FB 001A7 CALLS #2, MOUNT_VOL 7E 7C 001AC CLRQ -(SP)	
			7E 7C 001AC CLRQ -(SP) 7E 7C 001AE CLRQ -(SP)	0929
			7E 7C 001AE CLRQ -(SP) 7E 7C 001BO CLRQ -(SP) 7E 7C 001B2 CLRQ -(SP)	
		7E 021B 0000G	01 DD 0018D	
	0000000G	9F	CF DD 001BB PUSHL IO_CHANNEL 01 DD 001BF PUSHL #1 0C FB 001C1 CALLS #12. @#SYS\$010W	
	00000878	29 8F	0C FB 001C1 CALLS #12, a#SYS\$QIOW 50 E9 001C8 BLBC STATUS, 26\$ 68 D1 001CB CMPL IO_STATUS, #2168	0932
		7E 67	50 15 00105 RNEG 502	0935
			03 CE 001D4 MNEGL #3, -(SP) 01 FB 001D7 CALLS #1, SPACE_TM 01 DD 001DA PUSHL #1 01 FB 001DC CALLS #1, SPACE_TM 00 FB 001DF CALLS #0, SETUP_AT_END AB 9F 001E4 PUSHAB 36(CURRENT_VCB) 01 DD 001E7 PUSHL #1	0936
	0000v	67 CF	01 FB 001DC CALLS #1, SPACE_TM 00 FB 001DF CALLS #0, SETUP_AT_END AB 9F 001E4 PUSHAB 36(CURRENT_VCB) 01 DD 001E7 PUSHL #1	0937 0938
		. 24	01 DD 001E7 PUSHL #1	: 0938

RWY

REWSPC V04-000				B 9 16-Sep-1984 02:31:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:46:49 [MTAACP.SRC]REWSPC.B32;	Page 17 (5)
55	10 52	66 50 10 0000G CF 52 02 0000V CF 0000G CF	0000G CF 04 24 FF A4 50 53 502 52 62 63 64 64 64 64 64 64 64 64 64 64 64 64 64	DD 001E9 9F 001EB FB 001EF 11 001F2 9E 001F4 26\$: MOVAB -1(R4), R0 FO 001FB DD 001FF FB 00201 PUSHL FID FB 00201 SUBL3 TM, #2, TM DD 0020E FB 00213 31 00218 27\$: BRW A0 0021B 28\$: ADDW2 D4 00221 BB 00223 FB 00227 O4 0022A RET	0932 0942 0943 0944 0945 0946 0887 0954

RWV VO4

; Routine Size: 555 bytes, Routine Base: \$CODE\$ + 0109

; 578 0957 1

```
REWSPC
V04-000
                                                                            16-Sep-1984 02:31:54
14-Sep-1984 12:46:49
                                                                                                         VAX-11 Bliss-32 V4.0-742
EMTAACP.SRCJREWSPC.B32;1
                                                                                                                                                    Page
                   ROUTINE SETUP_AT_END : COMMON_CALL NOVALUE =
                             !++
                               FUNCTIONAL DESCRIPTION:
                                      This routine makes the current file section current and positions at end of this file section's data
                               CALLING SEQUENCE:
                                      SETUP_AT_END()
                               INPUT PARAMETERS:
                                      none
                               IMPLICIT INPUTS:
                                      none
                               OUTPUT PARAMETERS:
                                      norie
                               IMPLICIT OUTPUTS:
                                      file section made current
                                      start record of data section calculated
                               ROUTINE VALUE:
                                      none
                               SIDE EFFECTS:
                                      none
                                 BEGIN
                                 EXTERNAL REGISTER
                                      COMMON_REG;
                                 IF NOT READ_BLOCK(.HDR1, ANSI_LBLSZ)
                                 THEN
                                      ERR_EXIT(SS$_TAPEPOSLOST);
                                 IF .HDR1[E01$L_E01LID] NEQ 'EOV1'
                                 THEN
                                      ERR_EXIT(SS$_TAPEPOSLOST);
                                 SETUP_END(-1);
                   1004
                                 END:
```

0000 00000 SETUP_AT_END: Save nothing #80, -(SP) HDR1 9A DD FB MOVZBL 80000 A0000 #2, READ_BLOCK

0958 0995

RW\

0000G CF

7E

0000G

PUSHL

REWSPC V04-000		16-S 14-S	p-1984 02:31: p-1984 12:46:	54 VAX-11 Bliss-32 V4.0-742 49 [MTAACP.SRC]REWSPC.B32;1	Page 19 (6)
31564		50 E8 0000F 8F BF 00012 0F D1 00016 18 04 13 0001F 8F BF 00021 01 CE 00025 28 01 FB 00028	BLBS CHMU CMPL BEQL	RO, 1\$ #548 aHDR1, #827739973 2\$ #548 #1, -(SP) #1, SETUP_END	0997 0999
FI	7E 0224	04 13 0001F 8F BF 00021 01 CE 00025 2\$ 01 FB 00028 04 0002D	CMPL BEQL CHMU MNEGL CALLS RET	#1, -(SP) #1, SETUP_END	1001
; Routine Size: 46 bytes, Rout	ine Base: \$CODE\$	+ 0334			
627 1005 1 END 628 1006 1 629 1007 0 ELUDOM					
	PSECT SUMMAR	RY			
Name E \$CODE\$	ytes 866 NOVEC,NO	Attri DWRT, RD , EXE,N		REL, CON, NOPIC, ALIGN(2)	
Li	brary Statistics				
File	Total	Symbols Loaded Perce	1 0900	Processing Time	
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	28	0 1000	00:01.9	

RWV VO4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:REWSPC/OBJ=OBJ\$:REWSPC MSRC\$:REWSPC/UPDATE=(ENH\$:REWSPC)

; Size: 866 code + 0 data bytes ; Run Time: 00:17.9 ; Elapsed Time: 00:37.9 ; Lines/CPU Min: 3367 ; Lexemes/CPU-Min: 17073 ; Memory Used: 197 pages ; Compilation Complete 0256 AH-BT13A-SE VA.O

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